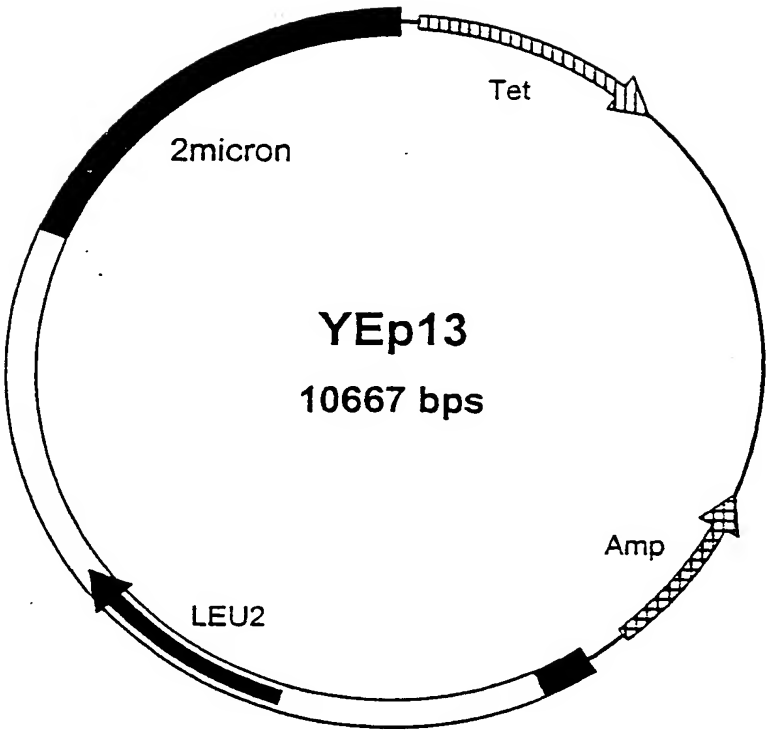

FIGURE 1

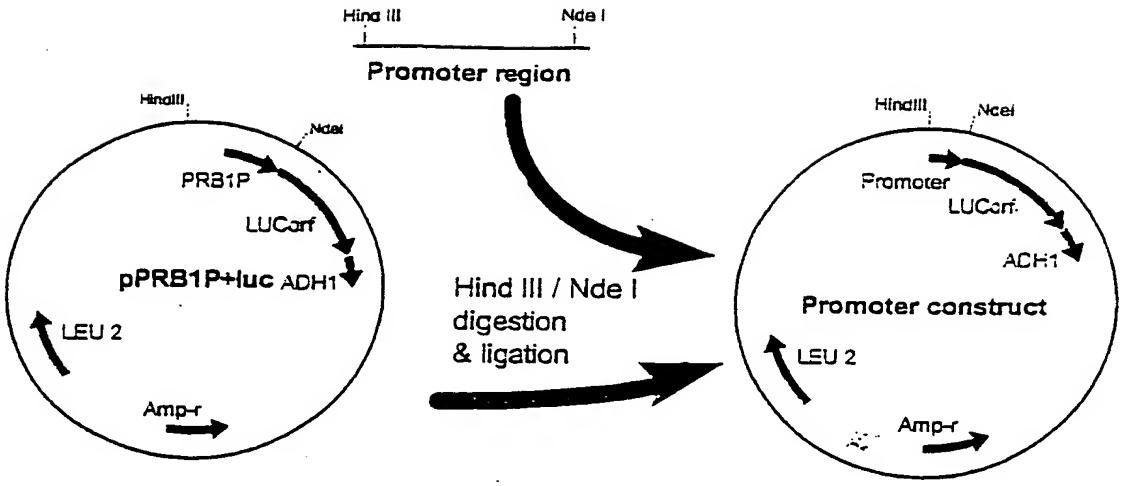
Hind III
Nde I
Promoter region
HindIII
NdeI
PRB1P
LUCorf
pPRB1P+luc ADH1
LEU 2
Amp-r
Hind III / Nde I
digestion
& ligation
HindIII
NcoI
Promoter
LUCorf
ADH1
Promoter construct
LEU 2
Amp-r

FIGURE 2

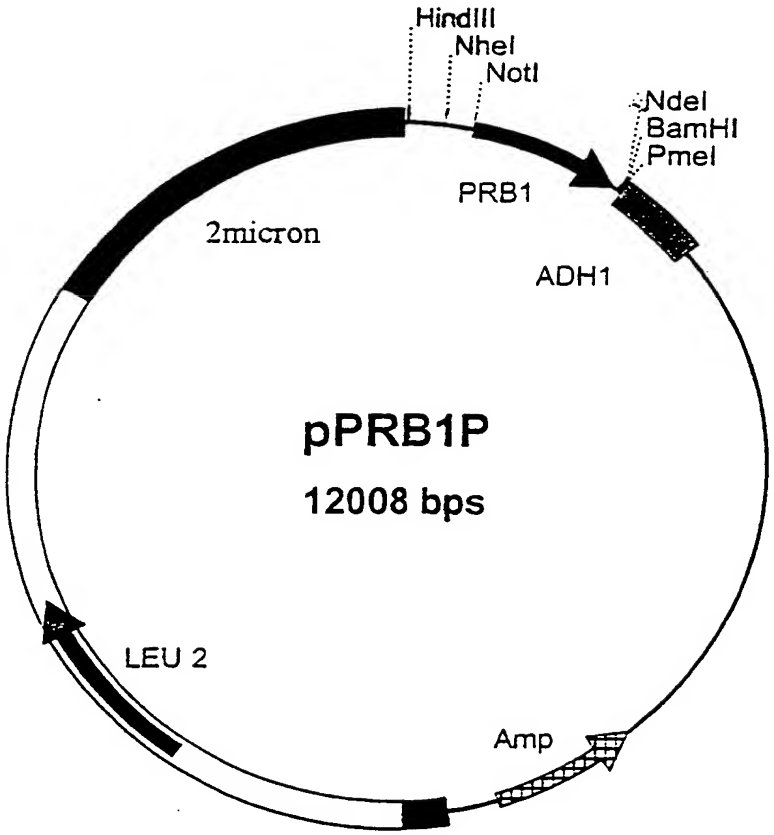
HindIII
NheI
NotI
NdeI
BamHI
PmeI
PRB1
2micron
ADH1
pPRB1P
12008 bps
LEU 2
Amp

FIGURE 3

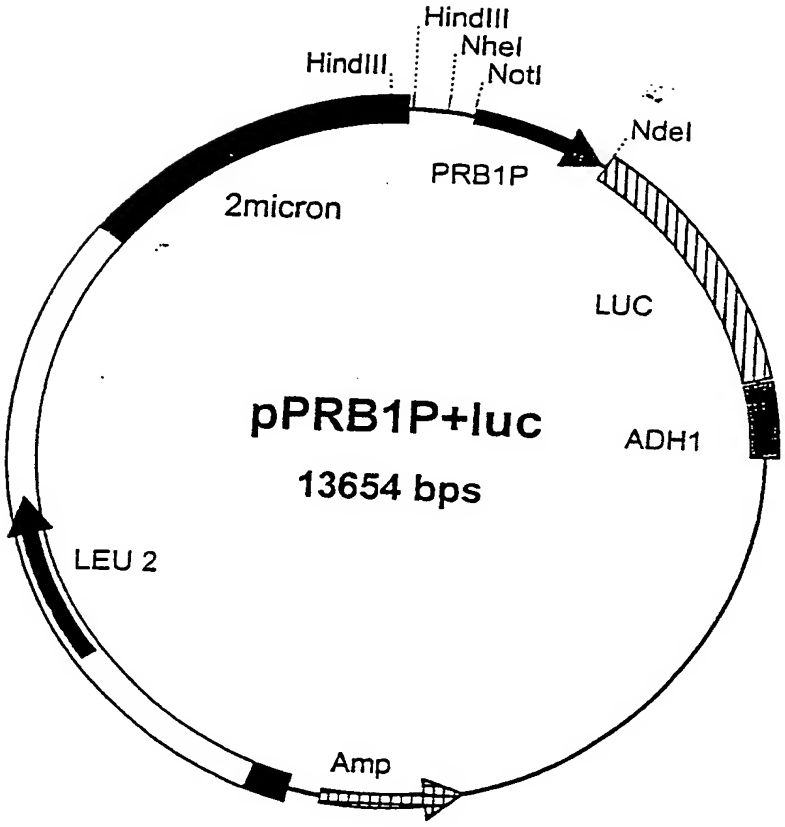
HindIII
NheI
NotI
HindIII
NdeI
PRB1P
2micron
LUC
pPRB1P+luc
13654 bps
ADH1
LEU 2
Amp

FIGURE 4

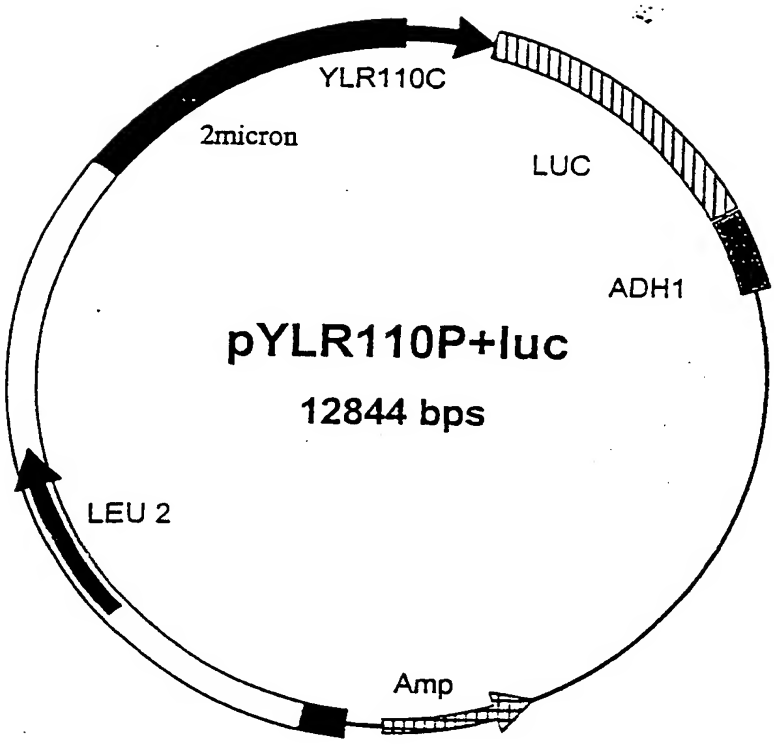

FIGURE 5

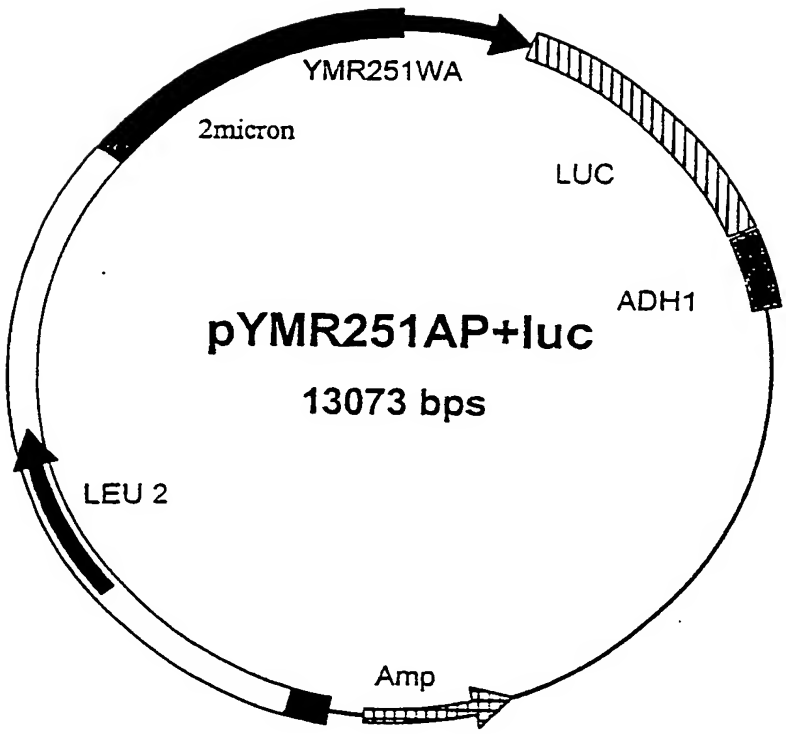

FIGURE 6

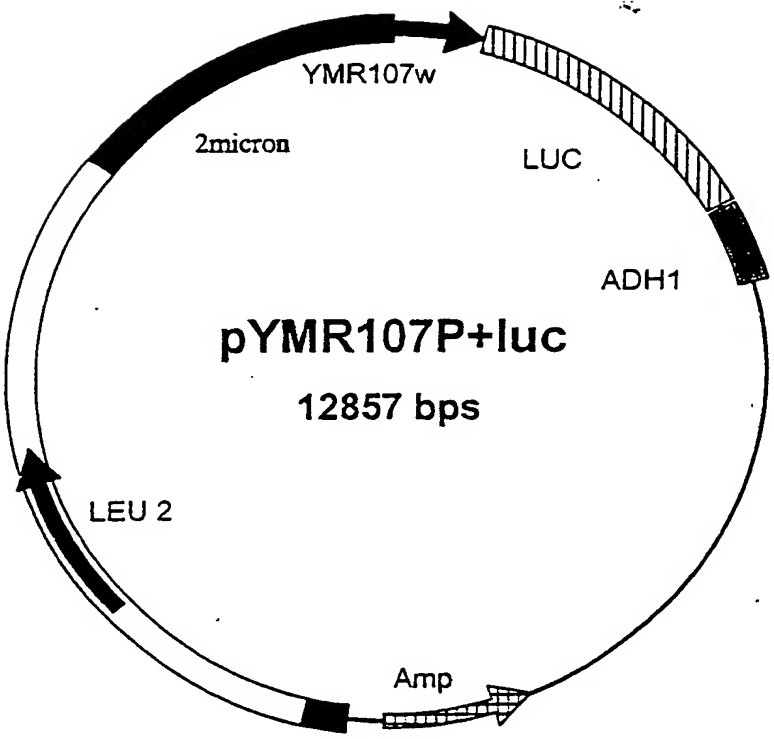

FIGURE 7

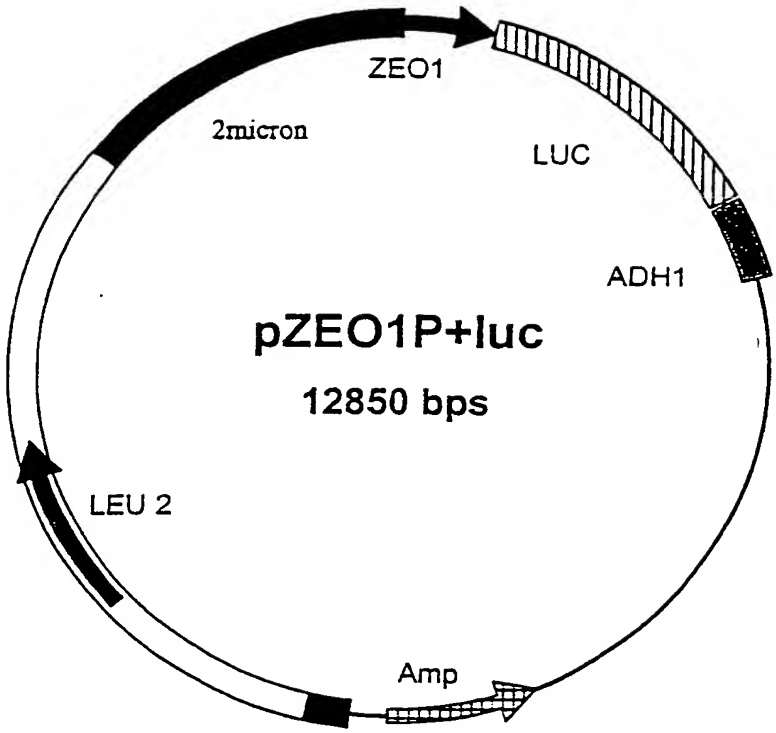

FIGURE 8

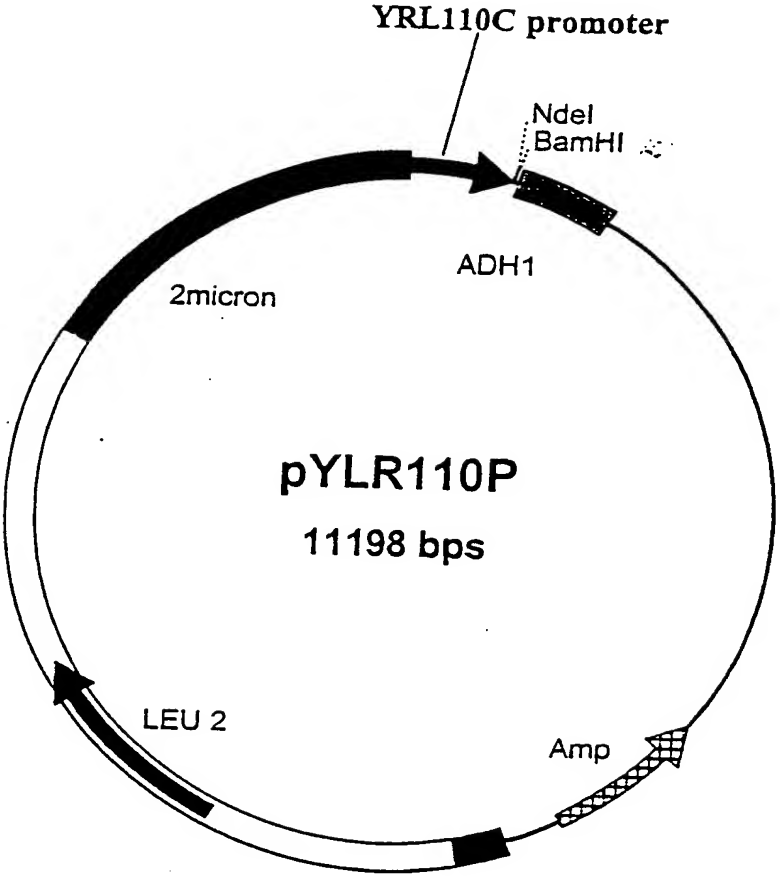
YRL110C promoter
NdeI
BamHI
ADH1
2micron
pYLR110P
11198 bps
LEU 2
Amp

FIGURE 9

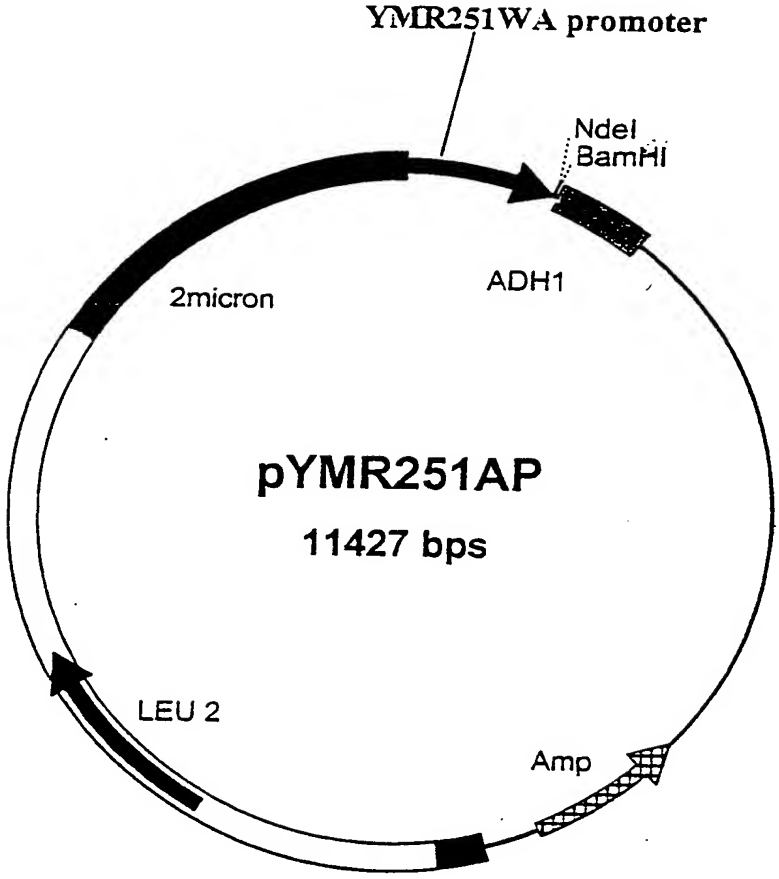
YMR251WA promoter
NdeI
BamHI
ADH1
2micron
pYMR251AP
11427 bps
LEU 2
Amp

FIGURE 10

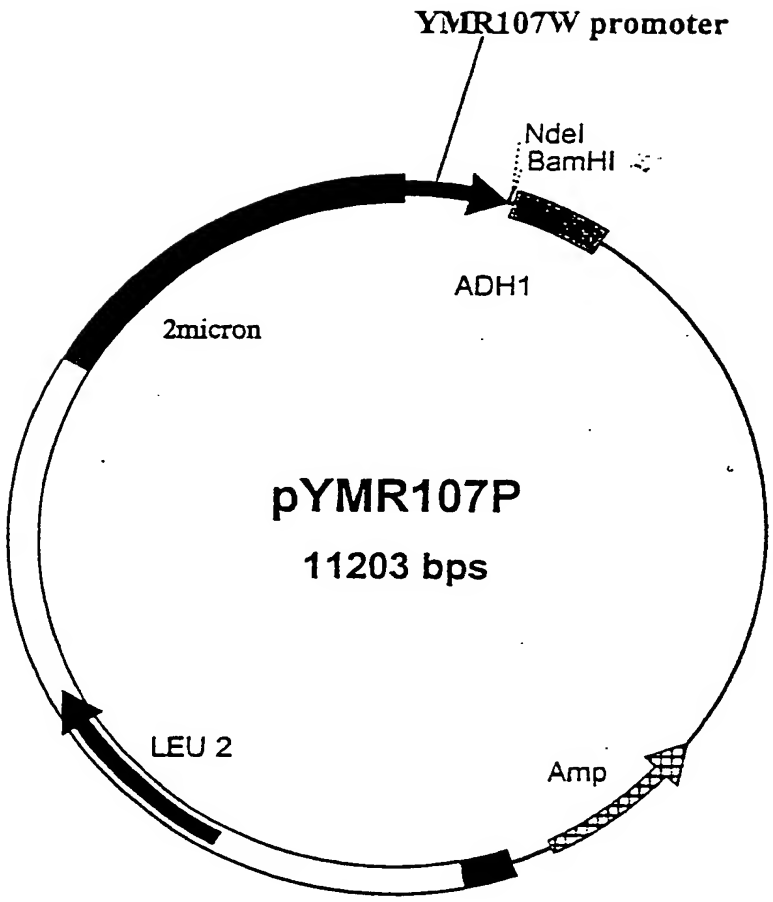
YMR107W promoter
NdeI
BamHI
ADH1
2micron
pYMR107P
11203 bps
LEU 2
Amp

FIGURE 11

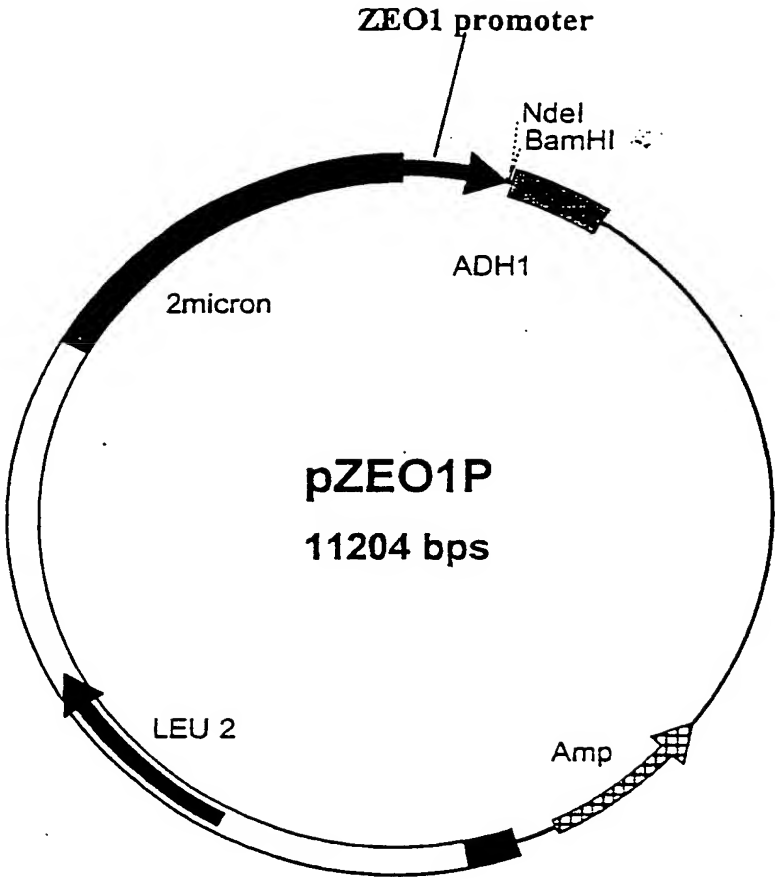
ZEO1 promoter
NdeI
BamHI
ADH1
2micron
pZEO1P
11204 bps
LEU 2
Amp

FIGURE 12

Figure 13 YLR110C promoter region (SEQ ID NO:29)
Sequence shown: Chr XII 370650 to 370051 (reverse orientation)

```
      1   AGAACCAAAT GGGAAAATCG GAATGGGTCC AGAACTGCTT TGAGTGCTGG
          TCTTGGTTTA CCCTTTTAGC CTTACCCAGG TCTTGACGAA ACTCACGACC
ATGCAAGCTTCGCGGCCGC                YLR-F
     51   CTATTGGCGT CTGATTTCCG TTTTGGGAAT CCTTTGCCGC GCGCCCCTCT
          GATAACCGCA GACTAAAGGC AAAACCCTTA GGAAACGGCG CGCGGGGAGA

    101   CAAAACTCCG CACAAGTCCC AGAAAGCGGG AAAGAAATAA AACGCCACCA
          GTTTTGAGGC GTGTTCAGGG TCTTTCGCCC TTTCTTTATT TTGCGGTGGT

    151   AAAAAAAAAA AATAAAAGCC AATCCTCGAA GCGTGGGTGG TAGGCCCTGG
          TTTTTTTTTT TTATTTTCGG TTAGGAGCTT CGCACCCACC ATCCGGGACC

    201   ATTATCCCGT ACAAGTATTT CTCAGGAGTA AAAAAACCGT TTGTTTTGGA
          TAATAGGGCA TGTTCATAAA GAGTCCTCAT TTTTTTGGCA AACAAAACCT

    251   ATTCCCCATT TCGCGGCCAC CTACGCCGCT ATCTTTGCAA CAACTATCTG
          TAAGGGGTAA AGCGCCGGTG GATGCGGCGA TAGAAACGTT GTTGATAGAC

    301   CGATAACTCA GCAAATTTTG CATATTCGTG TTGCAGTATT GCGATAATGG
          GCTATTGAGT CGTTTAAAAC GTATAAGCAC AACGTCATAA CGCTATTACC

    351   GAGTCTTACT TCCAACATAA CGGCAGAAAG AAATGTGAGA AAATTTTGCA
          CTCAGAATGA AGGTTGTATT GCCGTCTTTC TTTACACTCT TTTAAAACGT

    401   TCCTTTGCCT CCGTTCAAGT ATATAAAGTC GGCATGCTTG ATAATCTTTC
          AGGAAACGGA GGCAAGTTCA TATATTTCAG CCGTACGAAC TATTAGAAAG

    451   TTTCCATCCT ACATTGTTCT AATTATTCTT ATTCTCCTTT ATTCTTTCCT
          AAAGGTAGGA TGTAACAAGA TTAATAAGAA TAAGAGGAAA TAAGAAAGGA

    501   AACATACCAA GAAATTAATC TTCTGTCATT CGCTTAAACA CTATATCAAT
          TTGTATGGTT CTTTAATTAG AAGACAGTAA GCGAATTTGT GATATACTTA
                                                  ↵ YLR-R      GT
    551   AATGCAATTT TCTACTGTCG CTTCTATCGC CGCTGTCGCC GCTGTCGCTT
          TTACGTTAAA AGATGACAGC GAAGATAGCG GCGACAGCGG CGACAGCGAA
          A   CCGGACC
```

YLR111W ORF = Underline

YLR110C ORF = Bold

YLR-F = SEQ ID NO:5

YLR-R = SEQ ID NO:6

Figure 14 YMR251WA promoter region (SEQ ID NO:30)

Sequence shown: CHR XIII 773951 TO 774800

```
1      GCCACGGGTC AACCCGATTG GGATCACCCC ACTGGGGCCC AAGCCTGATA
       CGGTGCCCAG TTGGGCTAAC CCTAGTGGGG TGACCCCGGG TTCGGACTAT
                 AGCTAAGCTTCGCGGCCGC                YMR-F
51     TCCGACCTCC ATGAAATTTT TTTTTTTCTT TCGATTAGCA CGCACACACA
       AGGCTGGAGG TACTTTAAAA AAAAAAAGAA AGCTAATCGT GCGTGTGTGT

101    TCACATAGAC TGCGTCATAA AAATACACTA CGGAAAAACC ATAAAGAGCA
       AGTGTATCTG ACGCAGTATT TTTATGTGAT GCCTTTTTGG TATTTCTCGT

151    AAGCGATACC TACTTGGAAG GAAAAGGAGC ACGCTTGTAA GGGGGATGGG
       TTCGCTATGG ATGAACCTTC CTTTTCCTCG TGCGAACATT CCCCCTACCC

201    GGCTAAGAAG TCATTCACTT TCTTTTCCCT TCGCGGTCCG GACCCGGGAC
       CCGATTCTTC AGTAAGTGAA AGAAAAGGGA AGCGCCAGGC CTGGGCCCTG

251    CCCTCCTCTC CCCGCACGAT TTCTTCCTTT CATATCTTCC TTTTATTCCT
       GGGAGGAGAG GGGCGTGCTA AAGAAGGAAA GTATAGAAGG AAAATAAGGA

301    ATCCCGTTGA AGCAACCGCA CTATGACTAA ATGGTGCTGG ACATCTCCAT
       TAGGGCAACT TCGTTGGCGT GATACTGATT TACCACGACC TGTAGAGGTA

351    GGCTGTGACT TGTGTGTATC TCACAGTGGT AACGGCACCG TGGCTCGGAA
       CCGACACTGA ACACACATAG AGTGTCACCA TTGCCGTGGC ACCGAGCCTT

401    ACGGTTCCTT CGTGACAATT CTAGAACAGG GGCTACAGTC TCGATAATAG
       TGCCAAGGAA GCACTGTTAA GATCTTGTCC CCGATGTCAG AGCTATTATC

451    AATAATAAGC GCATTTTTGC TAGCGCCGCC GCGGCGCCCG TTTCCCAATA
       TTATTATTCG CGTAAAAACG ATCGCGGCGG CGCCGCGGGC AAAGGGTTAT

501    GGGAGGCGCA GTTTATCGGC GGAGCTCTAC TTCTTCCTAT TTGGGTAAGC
       CCCTCCGCGT CAAATAGCCG CCTCGAGATG AAGAAGGATA AACCCATTCG

551    CCCTTTCTGT TTTCGGCCAG TGGTTGCTGC AGGCTGCGCC GGAGAACATA
       GGGAAAGACA AAAGCCGGTC ACCAACGACG TCCGACGCGG CCTCTTGTAT

601    GTGATAAGGG ATGTAACTTT CGATGAGAGA ATTAGCAAGC GGAAAAAAAC
       CACTATTCCC TACATTGAAA GCTACTCTCT TAATCGTTCG CCTTTTTTTG

651    TATGGCTAGC TGGGAGTTGT TTTTCAATCA TATAAAAGGG AGAAATTGTT
       ATACCGATCG ACCCTCAACA AAAAGTTAGT ATATTTTCCC TCTTTAACAA

701    GCTCACTATG TGACAGTTTC TGGGACGTCT TAACTTTTAT TGCAGAGGAC
       CGAGTGATAC ACTGTCAAAG ACCCTGCAGA ATTGAAAATA ACGTCTCCTG

751    TATCAAATCA TACAGATATT GTCAAAAAAA AAAAAGACTA ATAATAAAAA
       ATAGTTTAGT ATGTCTATAA CAGTTTTTTT TTTTTCTGAT TATTATTTTT
                                                  YMR-R      G A
801    ATGAAGTTAT CTCAAGTTGT TGTTTCCGCC GTCGCCTTCA CTGGTTTAGT
       TACTTCAATA GAGTTCAACA ACAAAGGCGG CAGCGGAAGT GACCAAATCA
             C
```

YMR251W ORF = Underline
YMR251WA ORF = Bold
YMR-F = SEQ ID NO:7
YMR-R = SEQ ID NO:8

Figure 15 YMR107W PROMOTER REGION (SEQ ID NO:31)

Sequence shown: CHR XIII 482463 TO 483063

```
                1  AAAGAATCCA TCACTATTTG AAAAAAAGTC ATCTGGCACG TTTAATTATC
YMR107-F
AGCTAAGCTTCGCGGCCGC
               51  AGAGCAGAAA TGATGAAGGG TGTTAGCGCC GTCCACTGAT GTGCCTGGTA

              101  GTCATGATTT ACGTATAACT AACACATCAT GAGGACGGCG GCGTCACCCC

              151  AACGCAAAAG AGTGACTTCC CTGCGCTTTG CCAAAACCCC ATACATCGCC

              201  ATCTGGCTCC TGGCAGGGCG GTTGATGGAC ATCAGCCGCC TCCCTTAATT

              251  GCTAAAGCCT CCACAAGGCA CAATTAAGCA ATATTTCGGG AAAGTACACC

              301  AGTCAGTTTG CGCTTTTATG ACTGGGTTCT AAGGTACTAG ATGTGAAGTA

              351  GTGGTGACAG AATCAGGGAG ATAAGAGGGA GCAGGGTGGG GTAATGATGT

              401  GCGATAACAA TCTTGCTTGG CTAATCACCC CCATATCTTG TAGTGAGTAT

              451  ATAAATAGGA GCCTCCCTTC CTATTGCAAC TCCATAAAAT TTTTTTTTGT

                                                          MODIFICATION  AT
              501  AGCCACTTCT GTAACAAGAT AAATAAAACC AACTAATCGA GATATCAAAT
                                                    GATTAGCT CTATAGTGTA

              551  ATGGGTAGTT TTTGGGACGC ATTCGCAGTA TACGACAAGA AAAAGCACGC
                   TACCCTACCTA YMR107-R
```

YMR107W ORF = Bold
YMR107-F = SEQ ID NO:9
YMR107-R = SEQ ID NO:10

Figure 16 ZEO1 PROMOTER REGION (SEQ ID NO:32)

Sequence shown: CHR XV 109746 TO 110346

ZEO1-F
AGCTAAGCTTCGCGGCCGC

```
   1  TTCAGGAGTC TCTCGCGTTA GAGCAGTACG TGGCGCAGCT AAACTCGCCG
  51  GGAGGTCTGCTTCACGAGCG CGGTGTGCGC CTAGTATTGC CCCGACGGTC
 101  CGGGTGCCTA TCCCTAGATT TCGTCGTGCC CCGACCCAAA TAGTTAAACG
 151  TGTGGTTTAT GGGTGCACCA GGGCTTTATC GTGTTTTATA TCGATGGCGA
 201  TTTGTGCCTC CAGTGTATTT TTGTATATCC AATTAAGGTT TCTTACCTAA
 251  TTTTATTTTT ATCATCTTTA GTTAATGCTG GTTTGCTCTG TTTCTGCTGC
 301  TTTCTGTGCG GTTCTCCTCT TCTCTTGTTT CTTCGTGTTG TCCCCCATCG
 351  CCGATGGGCT TATATGGCGT ATATATATAG AGCGAGTTTT TACGTCGAAG
 401  ATCATCTCAG TTTGCTTGAT AGCCTTTCTA CTTTATTACT TTCGTTTTTA
 451  ACCTCATTAT ACTTTAGTTT TCTTTGATCG GTTTTTTTCT CTGTATACTT
 501  AAAAGTTCAA ATCAAAGAAA CATACAAAAC TACGTTTATA TCAATTAATA
                                          GCAAATAT AGTTAATGTA
 551  ATGTCTGAAA TTCAAAACAA AGCTGAAACT GCCGCCCAAG ATGTCCAACA
      TACGCTAGCAT ZEO1-R
```

YOL110W ORF = Underline
ZEO1 (YOL109W) ORF = Bold
ZEO1-F = SEQ ID NO:11
ZEO1-R = SEQ ID NO:12